



## CYRIX microprocessor controlled battery separators

### No voltage loss

The Cyrix battery separator consists of a microprocessor controlled heavy duty relay that connects batteries in parallel when one of the connected batteries has been recharged to a preset voltage (indicating that the battery is being charged), and disconnects when the voltage decreases below float level (indicating that one or more batteries are being discharged).

Cyrix battery separators often are an excellent replacement for diode isolators. The advantage of the battery separator is that there is virtually no voltage loss so that the output voltage of the alternator or battery charger does not need to be increased.

### Prioritising the starter battery

In a typical setup the alternator is directly connected to the starter battery. The accessory battery, and possibly also a bow thruster and other batteries are each connected to the starter battery by Cyrix battery separators. If a Cyrix senses that the starter battery is above its connect voltage it will engage, to allow for parallel charging of the other battery.

### Bidirectional voltage sensing

The Cyrix senses the voltage of both connected batteries. It will therefore also engage if for example the accessory battery is being charged by a battery charger.

### Parallel connection in case of emergency

The Cyrix can also be engaged with a switch to connect batteries in parallel in case of emergency. This is specially useful if the starter battery is discharged or damaged.

Cyrix battery separator	X80/12	X80/24	X160/12	X160/24	X400/12	X400/24
Continuous current (A)	80	80	160	160	400	400
Connect voltage (V)	13,2	26,4	13,2	26,4	13,2	26,4
Disconnect voltage (V)	12,8	25,6	12,8	25,6	12,8	25,6
Current consumption when open	<5 mA	<5 mA	<5 mA	<5 mA	<5 mA	<5 mA
Connection for remote on-off	√	√	√	√	√	√
Micro switch for remote status indication					√	√
Weight (kg)	0,11	0,11	0,3	0,3	0,9	0,9
Dimensions (h x w x d in mm)	46 x 46 x 80	46 x 46 x 80	46 x 93 x 96	46 x 93 x 96	78 x 102 x 110	78 x 102 x 110

